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INTERNATIONALE ANMELDUNG VERÖFFENTLICHT NACH DEM ÜBERTRAG ÜBER DIE
INTERNATIONALE ZUSAMMENARBEIT AUF DEM GEBIET DES PATENTWESENS (PCT)

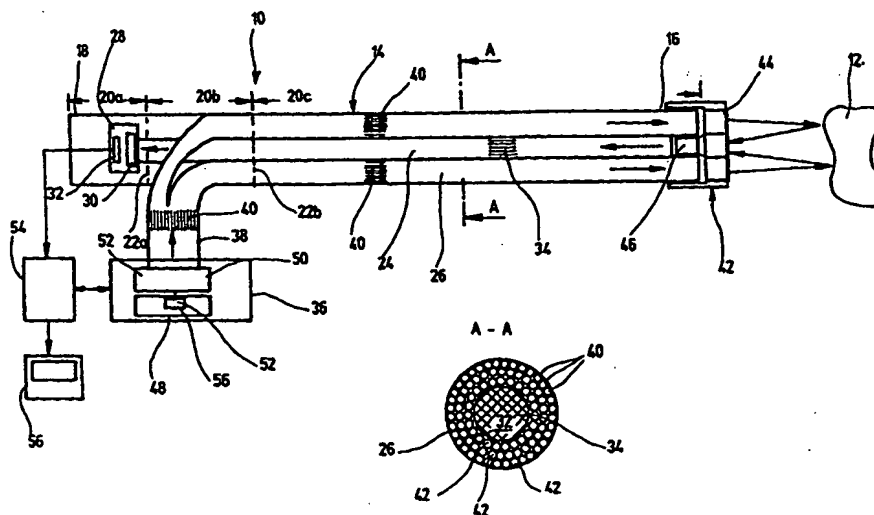
(51) Internationale Patentklassifikation ⁶ : G02B 23/24	A1	(11) Internationale Veröffentlichungsnummer: WO 99/39232 (43) Internationales Veröffentlichungsdatum: 5. August 1999 (05.08.99)
(21) Internationales Aktenzeichen: PCT/EP98/07433 (22) Internationales Anmeldedatum: 19. November 1998 (19.11.98) (30) Prioritätsdaten: 198 03 679.5 30. Januar 1998 (30.01.98) DE (71) Anmelder (für alle Bestimmungsstaaten ausser US): VOSSELER ZWEITE PATENTVERWERTUNGSGESELLSCHAFT MBH [DE/DE]; An der Lehmgrube 9, D-74613 Öhringen (DE). (72) Erfinder; und (75) Erfinder/Anmelder (nur für US): VOSSELER, Hans-Günter [DE/DE]; An der Lehmgrube 9, D-74613 Öhringen (DE). (74) Anwalt: RAECK & HÖSSLE; Moserstrasse 8, D-70182 Stuttgart (DE).		(81) Bestimmungsstaaten: JP, US, europäisches Patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE). Veröffentlicht Mit internationalem Recherchenbericht.

(54) Title: DEVICE FOR OPTICALLY SCANNING AN OBJECT






(54) Bezeichnung: VORRICHTUNG ZUR OPTISCHEN ABTASTUNG EINES OBJEKTS

(57) Abstract

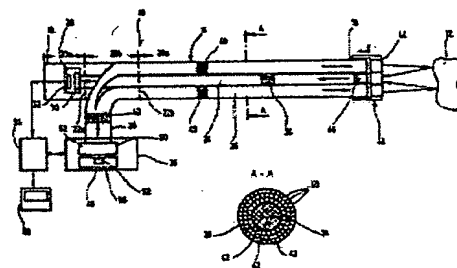
The invention relates to a device for optically scanning an object, preferably in the form of an endoscope, comprising an elongated housing (14), a plurality of light guides (40) which are arranged concentrically inside said housing (14) to form several light guide rings (42), an illumination device (36) which is allocated to the proximal end of the light guides, an objective device (42) which is allocated to the distal end of the light guides (40) and a detecting device (28) for optically detecting an object (12). The invention is characterised in that a selection device (50) which enables light to be radiated into specific light guides (40) is provided, and in that the detection device (28) is configured to detect the light which is reflected by the object (12). An evaluation unit (54) for determining three dimensional data relating to the object (12) based on the light which is detected can be connected.



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DEVICE FOR OPTICALLY SCANNING AN OBJECT**Veröffentlichungsnummer** WO9939232**Veröffentlichungsdatum:** 1999-08-05**Erfinder** VOSSELER HANS-GUENTER [DE]**Anmelder:** VOSSELER ZWEITE PATENTVERWERTU [DE];, VOSSELER HANS GUENTER [DE]**Klassifikation:****- Internationale:** G02B23/24**- Europäische:** G02B23/24B5F**Anmeldenummer:** WO1998EP07433 19981119**Prioritätsnummer(n):** DE19981003679 19980130**Auch veröffentlicht als** DE19803679 (A1)**Zitierte Dokumente** GB2231231
 WO9317362
 EP0416371
 US4678900**Zusammenfassung von WO9939232**

The invention relates to a device for optically scanning an object, preferably in the form of an endoscope, comprising an elongated housing (14), a plurality of light guides (40) which are arranged concentrically inside said housing (14) to form several light guide rings (42), an illumination device (36) which is allocated to the proximal end of the light guides, an objective device (42) which is allocated to the distal end of the light guides (40) and a detecting device (28) for optically detecting an object (12). The invention is characterised in that a selection device (50) which enables light to be radiated into specific light guides (40) is provided, and in that the detection device (28) is configured to detect the light which is reflected by the object (12). An evaluation unit (54) for determining three dimensional data relating to the object (12) based on the light which is detected can be connected.



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